

**Tennessee.**—At the close of the month all crops were suffering from the combined effects of dry and cool weather.

**Texas.**—Cotton was damaged considerably in a few localities in Eastland and Comanche counties by heavy hail on 8th, but the precipitation was generally beneficial to the crop; maize was also slightly damaged by the excessive rain and hail of the 8th; the showers at the close of May were generally beneficial to the oat crop, especially those sown late, and improved the crop considerably.

**Utah.**—The month was unusually dry; the drought was most severely felt in the southern part of the Territory, where it hindered the growth of crops and dried up the cattle ranges.

**Virginia.**—While there were numerous local showers during the first half of the month, yet, on account of the deficiency during April, the drought

became quite severe over the greater portion of the State, except the extreme northern, so that all growing crops were seriously injured and corn planting delayed until general and heavy rains on the 18th to 20th.

**Washington.**—The unusually warm weather during the latter part of the month melted the snow in the mountains rapidly, causing serious freshets in nearly all the principal rivers of the State, which have almost completely destroyed the crops planted on the lowlands, but notwithstanding vegetation made good growth.

**Wisconsin.**—Rainfall largely in excess in the northwest and north-central counties, while southwest and south-central counties show a deficiency. The month proved generally favorable to small grain and not too severe for the life of corn and potatoes.

## WIND.

### PREVAILING WINDS.

The prevailing winds for May, 1894, viz, those that were recorded most frequently at Weather Bureau stations, are shown in Tables I and VIII; they are not given on Chart II, as has hitherto been the custom, but in lieu thereof the resultant winds are published.

### RESULTANT WINDS.

The resultants for the current month, as deduced from the hourly records of winds, by self-registers at about 67 regular Weather Bureau stations, are given in Table VIII. Other resultants, deduced from the personal observations made at 8 a. m. and 8 p. m. at all stations that appear on the morning and evening maps of the Weather Bureau, are given in Table IX. These latter resultants are also shown graphically on Chart II, in connection with the isobars based on the same system of simultaneous observation; the small figure attached to each arrow shows the number of hours that this resultant prevailed, on the assumption that each of the morning and evening observations represents one hour's duration of a wind of average velocity; these figures (or the ratio between them and the total number of observations in this month) indicate the extent to which winds from different directions counter-balance each other. The original north, south, east, and west components, on which these resultants are based, are given in detail in Table IX for convenience in making further studies.

During May the resultant movement from the southwest prevailed in New England, the south Atlantic States, the lower Lakes, Ohio Valley and Tennessee, and the northern plateau region; from the southeast in the western Gulf States and the southern slope region; northerly winds in the upper Lake region and North Dakota; while elsewhere the resultant winds were generally southwest or northwest. The strongest resultants were at Corpus Christi from the southeast, and at San Francisco from the southwest.

### HIGH WINDS.

Wind velocities of 50 miles, or more, per hour were reported at regular stations of the Weather Bureau as follows (maximum velocities are averages for 5 minutes; extreme velocities are gusts of shorter duration):

Stations.	Date.	Velocity.	Direction.	Stations.	Date.	Velocity.	Direction.
		Miles.				Miles.	
Amarillo, Tex. ....	4	60	s.	Chicago, Ill. ....	18	63	se.
Do .....	15	50	s.	Do .....	18	63	s.
Bismarck, N. Dak. ....	16	54	se.	Huron, S. Dak. ....	11	63	s.
Cheyenne, Wyo. ....	5	50	nw.	Pikes Peak, Colo. ....	15	77	sw.
Do .....	16	50	w.	Tatoosh Island, Wash. .	18	50	se.
Chicago, Ill. ....	1	60	sw.	Do .....	23	57	se.
Do .....	3	62	sw.	Williston, N. Dak. ....	14	52	w.

### LOCAL STORMS.

**1st.**—About 9.10 p. m. a windstorm of short duration passed over the eastern portion of Toledo, Ohio, causing

damage to the amount of about \$500. At Waukesha, Wis., a severe windstorm blew down barns.

**2d.**—A thunderstorm moving northeast occurred at Eastport, Me., between 2.27 and 4.50 p. m.; the tower of the public library was struck by lightning and slightly damaged. In Winston County, Miss., a horse was killed by lightning. At 5.45 p. m. a violent local storm, with a funnel-shaped cloud, moved northeast over Ebson, Kans., in a path about 1 mile wide, injuring 1 person and destroying property valued at \$4,000. An exceptionally heavy rain and hail storm visited Eureka Ranch, Kans., about 4.30 p. m., and continued until 9.30 p. m.; gardens and fruit were damaged.

**3d.**—During a windstorm at Franklin, Ky., in the evening, damage was caused to buildings. At Cincinnati, Ohio, a house was destroyed by lightning. A thunderstorm of short duration passed over Chicago, Ill., about 4.13 p. m.; a house was blown down killing one person.

**4th.**—Thunder and hail storms caused damage in Missouri and Kansas. At Half Way, Mo., a horse was killed by lightning. In the north part of Coffey County, Kans., damage was caused by hail. A heavy hailstorm was reported at Gordon, Douglas Co., Wis., destroying gardens and glass.

**5th.**—At Lancaster, Pa., a house was struck by lightning. A man was killed by lightning at Columbus, N. C. At Little Mountain, S. C., a number of trees were struck by lightning. At Prosperity, about 7 miles west of Little Mountain, a house was struck by lightning. High winds caused minor damage at Louisville, Ky. Severe storms were reported in Illinois, Wisconsin, Iowa, and Minnesota. At Chicago, Ill., a thunderstorm began at 9.35 p. m., and continued until past midnight; a church was blown down and a house struck by lightning. Three buildings were struck by lightning at Oconomowoc, Wis. At Stevens Point, Wis., a barn was struck by lightning. A hailstorm caused damage to glass and minor damage to crops at Amana, Iowa. Sixteen miles south of Centerville, Iowa, damage was caused by high wind. A severe hailstorm visited Iowa City, Iowa, about 5 p. m.; the stones were about 2 inches in diameter, some having an opaque center, apparently of snow, and others like transparent layers of ice; the damage was estimated at \$25,000. About 6.30 p. m. a severe local storm, moving east, passed about 4 miles southwest of Moravia, Iowa, in a path 100 to 300 yards wide; one person was killed and property demolished. The storm passed about one-fourth of a mile north of Bloomfield, Iowa, where the path was about 14 miles wide; at this point a funnel-shaped cloud was observed; one person was killed, and the estimated damage placed at \$25,000. A severe storm, with a funnel-shaped cloud, occurred about 3½ miles south of Foreston, Minn., at 3 p. m.; as the storm passed through an uninhabited part of the country no damage was caused, except to timber.

**6th.**—Thunder and wind storms occurred in the middle Atlantic States and the Ohio Valley and Tennessee. In Pennsylvania the storms were very severe, and considerable damage was done to property and crops. At Bachmans Val-

ley, Md., a rainstorm, attended by thunder, caused great damage to corn fields. Hail damaged vegetables and grain at Fenby, Md. At Taneytown, Md., a heavy thunder and rain storm damaged corn. Barns and trees were blown down at Upper Marlboro, Prince George Co., Md. In the vicinity of Woodstock, Md., exceptionally heavy rain caused washouts on railroads and damaged a large bridge. The storm did considerable damage along the line of the Baltimore and Ohio Railroad in Maryland; in many places the railroad tracks were inundated, and at some points washed away. A thunderstorm occurred at Stephens City, Va., accompanied by a light fall of hail; buildings were damaged by high wind and stock killed by lightning. Damage was done to buildings by a heavy thunder and wind storm at Buckhannon, W. Va. At Central City, W. Va., a thunderstorm moved northeast, with heavy rain after; the estimated damage to property was \$7,000. Damage was done by heavy rain and high wind at Thurman, Ohio. Heavy storms at Lincoln and Gentryville, Ind., blew down buildings and killed stock. A house was struck by lightning at Detroit, Mich., in the early morning.

**7th.**—At Water Valley, Miss., a thunderstorm, lasting fifteen minutes, caused damage of a minor character. A report from Alpena, Mich., states that during a gale a yacht went ashore on Thunder Bay Island, and at Thompsons Harbor, 25 miles north of Alpena, a schooner was reported ashore. High wind at Duluth, Minn., and West Superior, Wis., caused damage of a minor character.

**8th.**—Damage to the amount of \$4,000 was caused by a heavy thunderstorm at Solomons, Md. About 6.30 p. m. a destructive hailstorm passed over Eastland and Comanche Counties, Tex., in a path about 8 miles wide and 20 miles long, causing damage to crops. A heavy rain and wind storm moved southeast over Wichita Falls, Tex., about 5 p. m.; damage to property, \$2,000.

**9th.**—A severe storm, with hail, lasting one hour, visited Port Tampa, Fla.; glass on the south side of buildings was damaged and a number of telegraph poles were blown down. A heavy rain storm washed away bridges at McCune Station, Mo. At Wheatland, Mo., a horse was killed by lightning. A heavy rainstorm, with high wind, moved northeast over Stillwater, Minn., between 5 and 6.30 p. m.; one person was killed and property destroyed to the value of \$25,000. Wheat was destroyed 2 miles north of Dodge City, Kans.

**10th.**—An unusually severe rainstorm, with hail, occurred 2 miles south of Adairsville, Ga., in the evening; bridges were washed away. In the vicinity of Clarksville, Tenn., several places were struck by lightning. A norther, with heavy rain and hail, struck Rock Springs, Tex., about 4 p. m.; damage was caused by high wind. At Indianapolis, Ind., a rainstorm moved northeast at 4.45 p. m.; the rain was very heavy from 5.02 to 5.11 p. m., 0.50 inch falling in five minutes, accompanied by a strong southwest wind and thunder and lightning. At 5.05 p. m. the temperature dropped from 83° to 59° in a few minutes, and at the same time the barometer rose suddenly about 0.17 inch. An infant was killed by a falling brick, and minor damage was done to property. At Detroit, Mich., high wind from 8.34 p. m. to midnight blew down trees.

**11th.**—Birmingham, Ala., a heavy windstorm blew down trees. A thunderstorm, with heavy hail, occurred at Port Tampa, Fla., in the early morning; glass was broken by the hail and damage was caused by high wind. At Vicksburg, Miss., a thunderstorm moved northeast between 6.40 and 9.40 p. m.; hail fell for nearly half an hour, causing considerable damage. High wind damaged crops at Long Prairie and Milan, Minn.

**13th.**—Damage was caused by lightning and hail near Lynchburg, Va. A house was struck by lightning at Montgomery, Ala. A heavy rain and hail storm caused damage

at Henning, Minn. At Vale, Oreg., a horse was killed by lightning.

**14th.**—Heavy rain at Old Fort, N. C., caused considerable damage to crops. A man and a horse were killed by lightning at Louisville, Miss. Five miles west of Opelousas, La., a man and a horse were killed by lightning. During a heavy windstorm near Milfordton, Ohio, damage was done to fences and trees. Buildings were damaged by high wind in the southern part of Douglas County, Minn. A thunder and hail storm of short duration visited Fresno, Cal., in the early evening, causing damage to fruit and grain. In the mountains, on the east side of Fresno County, the storm was reported very severe, and over 4,000 sheep were frozen to death.

**15th.**—Heavy rain and thunder storms occurred in Illinois, Indiana, Wisconsin, and Minnesota. At Chicago, Ill., a thunderstorm moved east between 1.30 and 3.17 p. m.; 2 persons were stunned and considerable damage was done to property by lightning. Two houses were struck and stock killed by lightning at Delphi, Ind. At Markle, Ind., crops were damaged by hail. In the early morning a barn was struck by lightning and burned at Veedersburg, Ind. About 6.30 p. m., Bloomer, Wis., was visited by a heavy thunder and rain storm, which moved southwest, damaging buildings and crops. Two houses were struck by lightning and burned at Menomonie, Wis. A heavy rainstorm, accompanied by hail, moved northeast over Prescott, Wis., between 5.30 and 6.30 p. m.; damage was done by flood. Heavy rain in southeastern Minnesota and northwestern Wisconsin delayed railroad traffic. Damage was caused by lightning at Sauk Center, Minn. At Paonia, Colo., high wind damaged fruit. A wind storm at Show Low, Ariz., blew down trees.

**16th.**—A severe hailstorm at Pinopolis, S. C., caused damage to crops. Minor damage was caused by a thunderstorm at Indianapolis, Ind., in the early morning. Exceptionally heavy rainstorms occurred in Michigan, Wisconsin, and Minnesota. At Menomonie, Wis., a house was struck by lightning. A house was struck by lightning at Stevens Point, Wis. During a thunder and rain storm in the early morning at St. Paul, Minn., 2 houses were struck by lightning and washouts on railroads delayed traffic.

**17th.**—Severe local storms occurred in Ohio, and heavy wind and thunder storms in Indiana, Illinois, Michigan, and Wisconsin, in accordance with the official prediction. (See low area No. V.) A heavy thunderstorm, with hail and high wind, moved southeast over Alliance, Ohio, at 4.30 p. m., causing damage to the extent of \$500. A very severe thunderstorm, with unusually large hail, moved northeast over Cleveland, Ohio, from 3.20 to 6 p. m.; the hail fell for twenty-one minutes causing considerable damage. At Green Hill, Ohio, a hailstorm damaged glass, fruit, and wheat. About 4.30 p. m. a tornado moved east about 2 miles north of Montpelier and one-half mile south of Kunkle, Ohio; a funnel-shaped cloud was observed, and the storm was attended by thunder and lightning and unusually large hail; 4 persons were killed and the damage to property was estimated at \$6,000. A violent storm, moving northeast, with a funnel-shaped cloud, heavy rain, hail, thunder, and lightning swept over Navarre, Ohio, about 4 p. m.; a number of persons were injured by hail and damage was done to buildings. At Delphi and Mauzy, Ind., high wind damaged trees. At Elwood, Ind., a heavy thunder and wind storm, moving northeast, blew down 2 houses.

A thunderstorm, attended by hail, moved east in a path about 200 feet wide over Noblesville, Ind., causing damage to the extent of \$8,000. About 8 a. m. a heavy windstorm, moving southeast, visited Wellsboro, Ind.; a building was blown down, killing one person. At Chicago, Ill., a thunderstorm began at 6.58 and ended at 8.50 p. m.; several persons

were injured and buildings damaged by lightning. Damage by hail was reported at Riley, Ill. A hailstorm caused damage at Allegan, Mich. In the early morning a house was struck by lightning at Alpena, Mich. At Bronson, Mich., cattle were killed by lightning. A windstorm, moving south, caused damage to the extent of about \$1,000 at Emmet, Mich. At Port Huron, Mich., the most severe thunder and hail storm reported in years moved southwest between 4.30 and 11.30 p. m.; the temperature dropped from 80° to 48°; considerable damage was done by hail. Some damage was caused by hail at Sharon, Wis.

**18th.**—Destructive thunderstorms occurred in New Jersey, Maryland, District of Columbia, Virginia, and West Virginia. At Solomons, Calvert Co., Md., a heavy storm of thunder and hail caused damage to growing crops. A barn was struck by lightning at Benedict, Md. At 3.15 p. m. a severe thunderstorm, moving east, passed over Washington, D. C.; hail fell for a short time; the wind reached a maximum velocity of 47 miles per hour, damaging trees. A heavy hailstorm damaged vegetables and wheat at Stephens City, Va. A thunderstorm, lasting about twenty minutes and accompanied by high wind and hail for three minutes, occurred at Parkersburg, W. Va., in the afternoon; the temperature dropped 24°; many trees were blown down and houses unroofed. In the afternoon a thunder and wind storm moved east over Augusta, Ga.; three small houses in course of erection were blown down. At 3.35 p. m. a heavy southwest squall struck Jacksonville, Fla., causing several accidents. Cotton and corn were damaged by hail at Opelika, Ala. In accordance with official predictions, violent gales prevailed over the Great Lakes, attended by loss of life and a number of disasters to shipping. (See low area No. V.) Severe local storms occurred on the 18th on Lake Michigan.

At Chicago, the most severe storm in the history of the station began at 7.30 a. m.; rain fell at intervals during the day, and from 1.40 to 6 p. m. snow fell with the rain; the wind averaged about 50 miles per hour during the day; higher wind velocities have occurred several times, but the damage was not so great, the winds being of a steady character; the wind of this date was extremely gusty, blowing at the rate of 30 miles per hour one minute and 65 the next. Many vessels were caught on the lake and prevented from entering the harbor by the heavy seas; disasters were numerous and 10 lives were lost; the schooners *Evening Star*, *S. G. Mixer*, *Myrtle*, *Lincoln Dall*, *Jack Thompson*, *J. Loomis*, *McLaren*, *Mercury*, and *Rainbow* were total wrecks. The damage caused by this storm exceeded \$100,000, without counting the damage to the right of way of the Illinois Central Railway, which amounted to many thousands more. A report from Alpena, Mich., states that a heavy north gale and snowstorm prevailed over Middle Island; a raft in tow of the tug *John Owens* went ashore north of Middle Island. The schooner *American Union* that was reported ashore on the 7th at Thompsons Harbor, 25 miles north of Alpena, went to pieces; loss, \$10,000.

A severe northeast snowstorm swept over Boon, Mich., continuing throughout the day; snow fell to a depth of 4.0 inches; much timber was broken from the weight of snow. At Port Huron, Mich., a gale began in the afternoon and continued throughout the 19th. A schooner became water-logged a few miles north and went ashore; in the attempts to reach the vessel 4 persons were drowned; the crew were finally saved by the Life-Saving Service, but the vessel and cargo were a total loss. The storm was exceptionally heavy at Green Bay, Wis.; the water in the river, blown by the high wind, attained the highest point on record.

**19th.**—A heavy thunderstorm passed over the vicinity of Taunton, Mass.; a few miles south a house was struck by lightning and badly damaged. Damage was done by light-

ning at New London, Conn. A man was killed by lightning at Cape May, N. J. At Allendale, S. C., a severe windstorm damaged crops.

**20th.**—A heavy thunder and rain storm damaged wheat at Taneytown, Md. An unusually heavy snowstorm prevailed throughout the eastern and southern portions of Kentucky; great destruction was done to crops.

In connection with the snowfall in Kentucky on the 19th and 20th, it is noted that in all cases (viz, at Carlisle, Somerset, Lexington, Mount Sterling, and Corbin, where the snow was from 3 to 8 inches deep) the snow fell while the temperature of the air was between 35 and 40, which is unusually high. No snow had fallen in these regions in the month of May since 1854.

**20th-21st.**—Severe rainstorms and hard gales prevailed along the Atlantic coast from New Jersey northward. At Norwalk, Conn., a windstorm damaged fruit. At Atlantic City, N. J., a rain and wind storm began the early morning of the 20th and continued until the morning of the 21st; some delay was caused to railroad traffic; no wrecks were reported and only slight damage occurred along the sea front. At New Brunswick, N. J., rain began the morning of the 20th and continued during the 21st; damage was done to electric wires and trees. At Bayonne, N. J., a windstorm damaged fruit.

**22d.**—At Toledo, Ohio, heavy rain fell at intervals during the day, causing damage by flood to the amount of \$1,500.

**23d.**—About 4 a. m. a violent storm moved southeast over McKinney, Tex., killing one person and damaging property.

**24th.**—In the vicinity of Seaford, Del., damage was done to crops by hail. A hail and thunder storm passed over Stanardsville, Va.; hail damaged gardens and wheat; a house was struck by lightning. Hail damaged crops in Vermilion and Avoyelles Parishes, La.

**25th.**—A very severe sandstorm at Fresno, Cal., broke limbs from fruit trees.

**26th.**—During a heavy hailstorm, about 5 miles west of Ocean City, N. J., considerable damage was caused to garden truck. One person was stunned by lightning at Glenville, W. Va. A house was struck by lightning at Plant City, Fla.

**27th.**—About 4 p. m. a severe thunderstorm occurred at Detroit, Mich.; 3 persons were stunned and a number of buildings struck by lightning.

**28th.**—At Williamstown, N. J., a horse was killed by lightning. Heavy thunder and rain storm caused damage in eastern Pennsylvania. At Philadelphia, Pa., the storm began at 12.20 p. m. and ended at 6.04 p. m.; at 4.05 p. m. the rain became very heavy, 0.30 inch falling in five minutes, causing considerable damage by flood. At Port Richmond, a suburb of Philadelphia, two men were killed by lightning. Two barns were struck by lightning and burned at Benedict, Md. A hailstorm in the southern portion of Chautauqua County, Kans., damaged crops.

**29th.**—A hailstorm about 6 miles west of Ravenna, Nebr., destroyed corn. Eight miles south of Spearfish, S. Dak., two horses were killed by lightning.

**30th.**—A man was stunned by lightning at Port Royal, S. C. A severe local storm passed over the vicinity of Tatum Station, S. C., killing 4 persons and demolishing buildings. Concordia, Kans., was visited by a heavy thunderstorm at 1.30 p. m.; hail fell, damaging garden vegetation and fruit. In the vicinity of Los Lunas, N. Mex., heavy hail damaged crops.

**31st.**—A house was struck by lightning at Pensacola, Fla. At Abilene, Tex., a thunderstorm, with high wind and heavy rain, began at 12.10 and ended at 4.10 p. m.; damage was done by flood, and railroad traffic was delayed for several hours. A wind and rain storm moved over Hillsboro, Tex., about 2 a. m.; a church was demolished and several buildings were moved from their foundations.

## Thunderstorms and auroras, May, 1894.

States.	No. of stations.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	Total.		
Alabama	55	T. A.			1			2	1	1	3	3	1	3	5	1	1		3					1	1						4	2	33	T. A.	
Arizona	50	T. A.										4		1																2		7	T. A.		
Arkansas	49	T. A.	4		2	3	3	2	5	3	5	5		2	2	1		4		1			1	1	1	5	2	7	2	2	4		67	T. A.	
Colorado	81	T. A.		1	3			2	2	4	11			3	2	1				1	1	4	4	4	4		3	4	1	7	7	6	2	77	T. A.
California	322	T. A.													1				3						2	9	2	1	1		2	2	23	T. A.	
Connecticut	23	T. A.		3	1	8		3				1							11	9		1							8				45	T. A.	
Delaware	6	T. A.				1	3	2											2	1	1	1					2	1	3		1		18	T. A.	
District of Columbia	4	T. A.					1	1											1	1	1			1	1		1		1				9	T. A.	
Florida	34	T. A.	3						2	5	3	2	1	3	4	13	6	7	6	4					3	4	5	11	5	2		4	5	98	T. A.
Georgia	65	T. A.		2	1	2		1	3	5	5	2	1	4	6	7	1	2	2	8	2			2	1		6	2	1	1	1	1	1	69	T. A.
Idaho	24	T. A.	1		1								2	1	3	3				1		3			2	1	1	2				1	2	24	T. A.
Illinois	60	T. A.	11		16	3	17	15	5		5	12		4	5	3	1	15	2	1					1	4	1	5	1				126	T. A.	
Indiana	44	T. A.	5	1	6	2	2	7				4		1		5	7	4	5	2				1			4	5					61	T. A.	
Indian Territory	7	T. A.							1	2														2									6	T. A.	
Iowa	77	T. A.	9	3	5	5	13	2		1	8	2					4	7							1	2	3	1	1	2		3	65	T. A.	
Kansas	81	T. A.	1	4	6	12	4		3	12	9			1				2							1	2	1	2	10	9	8	1	88	T. A.	
Kentucky	43	T. A.		2	3	1	1	9	4	1		4		2		4		3						2		1	2	2	1				43	T. A.	
Louisiana	56	T. A.	5	2					3	1	5	11	13	9	20	11	2	2	9	2			2	6	15	3	1		5	7	7	8	149	T. A.	
Maine	18	T. A.		5	1				1	1														3									5	T. A.	
Maryland	26	T. A.		1		2	7	11	2	2							1	5	8	3	3		1	1	4	5	1	7	3	7		1	74	T. A.	
Massachusetts	83	T. A.		23		4		2	2							1			14	29									2	1	1	1		78	T. A.
Michigan	92	T. A.	11	4	15	3	9	14	1			12	1		16	11	14	23	5	1	1		1			1	1	7		9	1		151	T. A.	
Minnesota	75	T. A.	8	15	3	12	15		1	1	17		1	3	8	18	24	11	5	3						1	7	1	6	8	4	3		152	T. A.
Mississippi	52	T. A.	1	1		1	1	4	1	4	1	8	5	5	4	1			8	1	4	1		2	1			3	2	5	3	1	4	34	T. A.
Missouri	96	T. A.	7	2	22	26	18	13	7	6	26	23		3	6	1	5	18	4				1	1	11	10	1	8	3	9	3		234	T. A.	
Montana	30	T. A.												2	7	1	2			4	4	5			2		3	2	2	1		3	38	T. A.	
Nebraska	72	T. A.		2		1	2	1	1	3	9				2										1	1	5		4		3	8	1	43	T. A.
Nevada	44	T. A.						2	2						1				2						2	1							23	T. A.	
New Hampshire	28	T. A.		3				1	1									9	3					3						4	1		24	T. A.	
New Jersey	59	T. A.				1	9	18	4	3		1	2	1		1	1	4	29	4		1	1	2	1	4	4	2	2	1	30		116	T. A.	
New Mexico	29	T. A.						2				1	2	1				1									1			1	4	1	2	16	T. A.
New York	95	T. A.	1	1		2	10	16	2	1				1	1			11	20	3				4	2	1	1	8	11				94	T. A.	
North Carolina	59	T. A.		16	2	8	15	3	7	5		1	7	1	14	8	9	3	9	26	13	1	1	5	17	2		4	9	15	4	14	6	219	T. A.
North Dakota	38	T. A.			1		1		1				1	3	7	4	7										2		1	1	1		33	T. A.	
Ohio	145	T. A.	2	4	6	5	11	38	4	1		20		5	1	19	17	21	38	24	3	2	2	12	3	1	7	34	24	5	6	4	12	329	T. A.
Oklahoma	18	T. A.			3	1			1	2		1												1	1								10	T. A.	
Oregon	75	T. A.												1	1			1	4					1		1	4	13	7	6		2	6	52	T. A.
Pennsylvania	86	T. A.			1	5	9	30	6			1	2				7	16	27	11	3	1		3	1	1	16	7	15				163	T. A.	
Rhode Island	9	T. A.		1					2									2	5														11	T. A.	
South Carolina	44	T. A.	1	4	5	2	6	3	9	7	4	3	6	2	5	4	2	4	6	12	3		1		8		2	3	5	1	4	1	113	T. A.	
South Dakota	46	T. A.	1	2	1				2	1	1			2	2	1	2	1								1	1		1	1	3		23	T. A.	
Tennessee	43	T. A.	2	3	5	7	4	6	13	5	3	7	3	2	6	6	4	2	1	6	1				1	4	5	2				3		99	T. A.
Texas	81	T. A.	1	2			4	1	1	4	4	4	4	5	3	1				1	2			1	1	1	4	2	4	2		5	7	64	T. A.
Utah	36	T. A.							2	2						1										1	3	1	1	1	2	6	3	24	T. A.
Vermont	15	T. A.					4	1											4	2									3				15	T. A.	
Virginia	44	T. A.		7	1	9	8	10	1	3		1	3	1	6	2	1	5	1	13	8			4	7	6		8	2	10		2	1	119	T. A.
Washington	45	T. A.													1					1				1			3	7	3				19	T. A.	
West Virginia	36	T. A.		2			5	14	3		1		1	1	2	1	1	7	1	10	1			1	1					4			63	T. A.	
Wisconsin	67	T. A.	20	2	6	3	24	4		4	2		1	10	9	25	17	19	1						1			7	4		1		160	T. A.	
Wyoming	14	T. A.													1		2										1	5	6		2	7	1	23	T. A.
Sums	2,779	T. A.	94	118	117	127	202	234	96	77	130	129	58	50	103	169	148	133	208	274	121	20	23	34	85	81	93	164	133	169	79	97	79	3,657	T. A.